

# LTCC 高通滤波器 (High Pass Filter)

# HT-HFCN-7150+

## Features

- Low insertion loss.
- Good rejection.
- LTCC Construction.
- temperature stable.
- Small size.

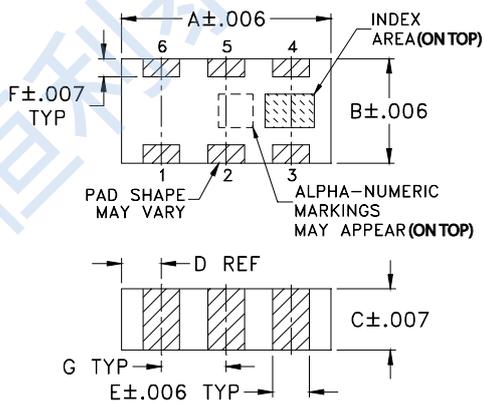
## Applications

- Sub-harmonic rejection.
- Transmitters/receivers.
- Lab use.

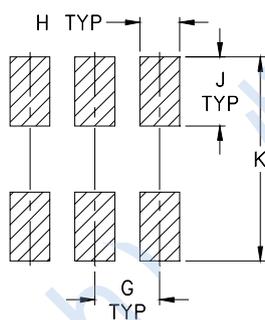
## Pad Connections

RF IN	1
RF OUT	3
GROUND	2,4,5,6

## Outline Drawing



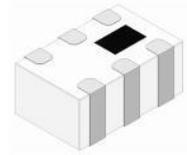
## PCB Land Pattern



## Outline Dimensions : inch mm

A	B	C	D	E	F
.126	.063	.035	.024	.022	.011
3.20	1.60	0.89	0.61	0.56	0.28
G	H	J	K		wt
.039	.024	.042	.123		grams
0.99	0.61	1.07	3.12		.020

## Functional Schematic



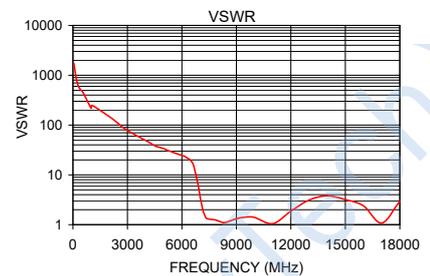
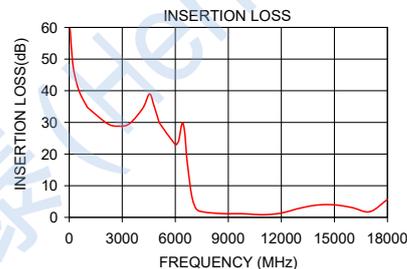
50 Ω  
7900MHz to 11000MHz

## Electrical Specifications(1) at 25°C

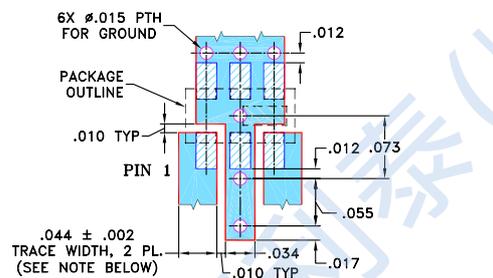
Parameter		Frequency (MHz)	Min.	Typ.	Max.	Units
Pass Band	Insertion Loss	7900-11000	—	—	2.0	dB
		8500-10500	—	—	1.5	
	VSWR	7250-11000	—	1.5	—	: 1
Stop Band	Rejection Loss	5100	—	30	—	dB
		6150	20	—	—	
	Freq. Cut-Off	7150	—	3.0	—	dB
	VSWR	5100-6150	—	20	—	: 1

1. In Application where DC voltage is present at either input or output ports, coupling capacitors are required.

## Typical Performance Data at 25°C



## Suggested PCB Layout



NOTE: 1. TRACE WIDTH IS SHOWN FOR ROGERS R04350 WITH DIELECTRIC THICKNESS: .020 ± .0015; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.  
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

- DENOTES PCB COPPER LAYOUT
- DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK

## Maximum Ratings

Operating Temperature	-55°C to +125°C
Storage Temperature	-55°C to +125°C
RF Power Input*	6W at 25°C

\*Permanent damage may occur if any of these limits are exceeded.